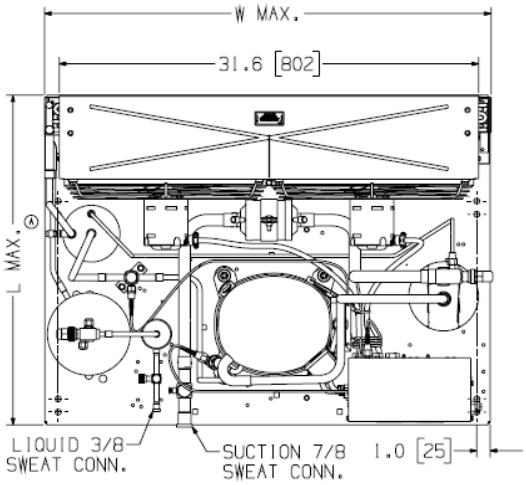
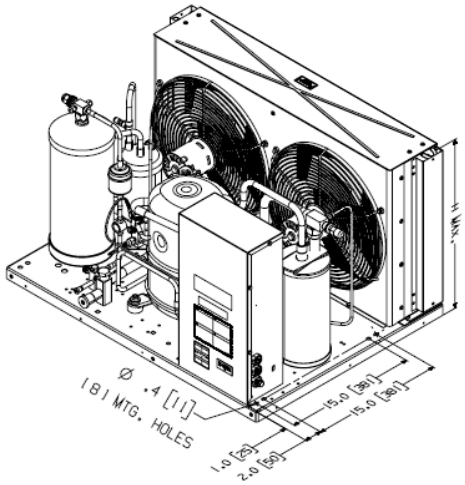
March 16, 2011

Tecumseh Compressor Company
Indoor Condensing Units

Model: AWA2457ZXTXF **BoM: 2B3264-1** **R-404A** **1.5 HP** **AIRCOOLED**





Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AWA2457ZXTXF	25.0	33.5	19.5	14.7	7/8" S	3/8" S	16.46 lbs	1600	38.5	200
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting										

		Ambient Temperatures											
Evaporator T		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-40	11.9	1965	941	85	1501	879	94	---	---	---	---	---	---
-35	15.0	2550	1027	86	1992	970	96	---	---	---	---	---	---
-30	10.7	3263	1123	87	2608	1073	96	1946	1016	105	1285	955	114
-25	14.0	4040	1220	88	3295	1178	97	2564	1127	106	1813	1070	115
-20	17.1	4921	1320	89	4086	1288	98	3275	1246	107	2447	1193	116
-15	19.3	5882	1422	91	4955	1401	99	4032	1366	108	3137	1321	117
-10	24.5	6924	1525	93	5895	1515	101	4883	1490	110	3863	1452	118
-5	28.8	8059	1629	95	6932	1632	103	5797	1617	111	4743	1589	119
0	33.5	9323	1732	97	8037	1749	105	6814	1746	113	5591	1726	121
5	36.5	10537	1836	98	9195	1866	106	7897	1875	114	6556	1866	122
10	43.7	11976	1932	100	10462	1980	108	9028	2003	116	7615	2006	124

60 Hz Performance

Return gas temp. 40°F, 5°F sub-cooling

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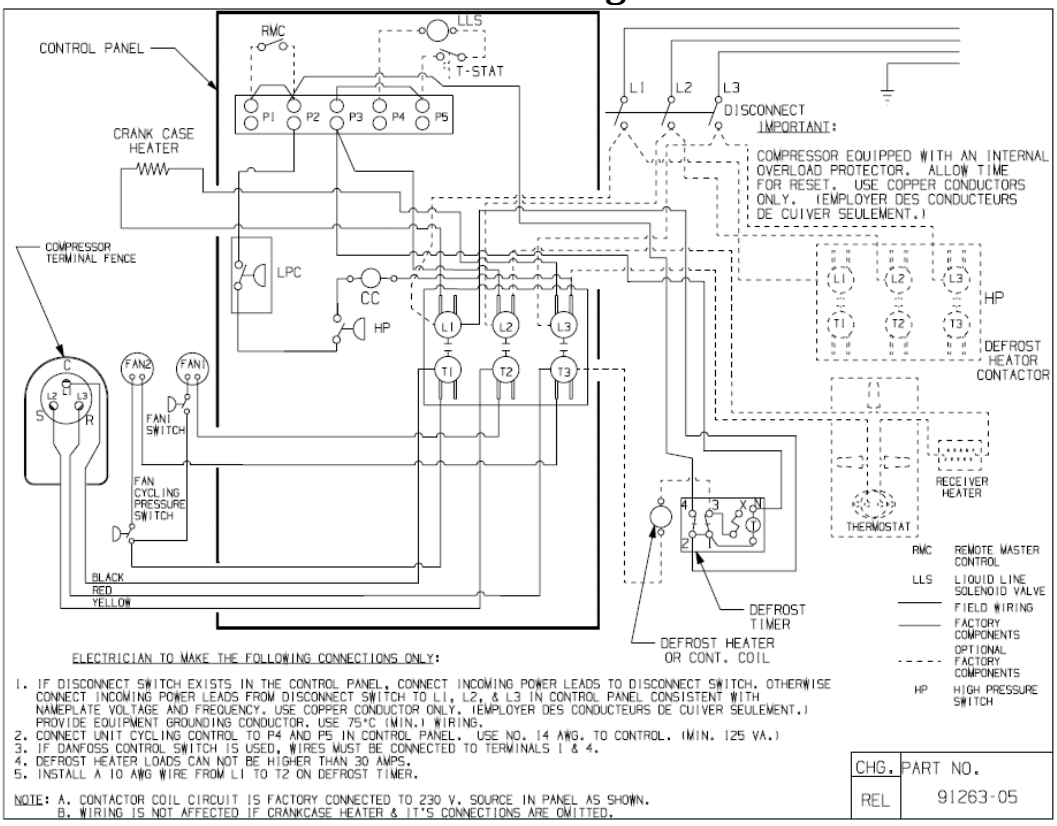
Specifications/ Parts:

Model	AWA2457ZXTXF
Unit Bill of Material	2B3264-1
Nominal Volts-Hz-Ph	200-230-60-3
Refrigeration Range	-40° to 10°F
Design Pressure Low	181
Design Pressure High	450
Voltage Range	180 to 254
Min. Circuit Ampacity	8.9
Max. Fuse Size (amps)	15
Compressor Model	AWA2450ZXT
Comp. Bill of Material	AW615RT-120-A2
Compressor RLA/LRA	5.8 / 40.5
Overload	INTERNAL
Relay	N/A
Run Capacitor	N/A
Run Capacitor Rating	N/A
Start Capacitor	N/A
Start Capacitor Rating	N/A
Contactor	91014
Unit Drawing	DGU1918-59
Wiring Diagram	91263-05

Fan Motor	810F050C20 (2)
Fan Motor RLA	0.7 Each
Fan Blade	51568-1 (2)
Fan Guard	70831 (2)
Fan Shroud	70648-2
High Pressure Switch	84095-2
Low Pressure Control	84026-2
Oil Separator *	704-00002
Condenser	50855-1
Fan Switch	84096-1
Fan Switch	84096-2
Receiver Tank	51082-1
Liquid Valve	31592
Liquid Filter *	70081
Sight Glass *	70084
Suction Valve *	31529-1
Rotolock Valve Gasket	30233
Discharge Valve	56596
Suction Filter *	70082
Accumulator *	TK00042000
Crankcase Heater	91022-1
Defrost Timer *	84110
Suction Shut Off Valve*	56500-K14
Liquid Shut Off Valve*	56500-K06
Shrader Valve Body*	56510
Valve Core*	56552
* = Equipped Units Only	

Electrical Diagram


CONTROL PANEL
RMC
LLS
T-STAT
P1 P2 P3 P4 P5
CRANK CASE HEATER
COMPRESSOR TERMINAL FENCE
LPC
CC
HP
FAN2
FAN1
FAN1 SWITCH
FAN CYCLING PRESSURE SWITCH
BLACK
RED
YELLOW
L1 L2 L3
DISCONNECT
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
T1 T2 T3
DEFROST HEATOR CONTACTOR
RECEIVER HEATER
THERMOSTAT
DEFROST TIMER
DEFROST HEATER OR CONT. COIL
RMC REMOTE MASTER CONTROL
LLS LIQUID LINE SOLENOID VALVE
FIELD WIRING
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
HP HIGH PRESSURE SWITCH
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. IF DISCONNECT SWITCH EXISTS IN THE CONTROL PANEL, CONNECT INCOMING POWER LEADS TO DISCONNECT SWITCH. OTHERWISE CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1, L2, & L3 IN CONTROL PANEL CONSISTENT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P4 AND P5 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF DANFOSS CONTROL SWITCH IS USED, WIRES MUST BE CONNECTED TO TERMINALS 1 & 4.
4. DEFROST HEATER LOADS CAN NOT BE HIGHER THAN 30 AMPS.
5. INSTALL A 10 AWG WIRE FROM L1 TO T2 ON DEFROST TIMER.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WIRING IS NOT AFFECTED IF CRANKCASE HEATER & IT'S CONNECTIONS ARE OMITTED.
CHG. PART NO.
REL 91263-05